

Appl. No. 10/655,841  
Amdt. Dated 11/30/2005  
Reply to Office Action of September 1, 2005

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A security device comprising:  
a keypad/display having a plurality of code symbol display positions, each for displaying any one of a plurality of code symbols, the code symbols being restricted so as to be viewable by a keypad/display user only when the user's face is located in a particular position relative to the keypad/display, the keypad/display changing the display position of code symbols on each operation of the keypad/display; and

a biometric device associated with the keypad/display ~~for and capable of acquiring data from at least a portion of said user's face situated in said particular region and capable of performing biometric recognition of said user using said data;~~

the biometric device being activated in response to or in conjunction with the initiation of the entry of a code responsive to the code symbols displayed.

2. (Original) The security device of claim 1 wherein the keypad/display comprises a plurality of manually operable keys for entry of a code, each key being associated with a respective code symbol display position.

3. (Currently Amended) The security device of claim 1 wherein the keypad/display includes a microphone and associated speech recognition ~~capability~~ for entry of a code by recognizing a spoken sequence of code symbols corresponding to the symbols then being displayed in a predetermined spatial sequence of code symbol display positions.

4. (Currently Amended) The security device of claim 1, wherein said biometric device performs ~~is capable of performing~~ facial recognition of said user.

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5. (Currently Amended) The security device of claim 1, wherein said biometric device performs ~~is capable of performing~~ retina recognition of said user.

6. (Currently Amended) The security device of claim 1, wherein said biometric device performs ~~is capable of performing~~ iris recognition of said user.

7. (Original) The security device of claim 1, wherein said biometric device comprises a solid state camera.

8. (Original) The security device of claim 1 wherein the keypad/display is rotatable about a horizontal axis to allow persons of different height to conveniently view the code symbols.

9. (Original) The security device of claim 8 further comprising a sensor sensing the angle of the keypad/display about a horizontal axis to provide an additional level of user recognition.

10. (Currently Amended) A method of operating a security system comprising:  
providing a keypad/display having a plurality of code symbol display positions, each for displaying any one of a plurality of code symbols, the code symbols being restricted so as to be viewable by a keypad/display user only when the user's face is located in a particular position relative to the keypad/display;

providing an biometric device associated with the keypad/display for and capable of ~~and capable of~~ acquiring data from a portion of the user's face situated in said particular region and ~~capable of~~ performing biometric recognition of said user using said data;

on each operation of the keypad/display, changing the code symbols displayed at the code symbol display positions;

sensing the entry of a code by the user, and during the entry of the code, initiating optical biometric device to obtain data from said user's face;

comparing the code entered and the data taken to predetermined criteria for recognition of the user.

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11. (Original) The method of claim 10 wherein the entry of a code is sensed by sensing the actuation of manually operable keys on the keypad/display, each key being associated with a respective code symbol display position.

12. (Original) The method of claim 10 wherein the keypad/display includes a microphone, and wherein entry of a code is sensed by sensing the speaking of a code sequence by a user of code symbols corresponding to the symbols then being displayed in a predetermined spatial sequence of code symbol display positions and identifying the code spoken using speech recognition techniques.

13. (Original) The method of claim 10 wherein the code entered is compared with predetermined criteria for recognition of the user to determine the predetermined criteria to which the data is then compared for recognition of the user.

14. (Original) The method of claim 10 wherein comparing the data taken to predetermined criteria for recognition of the user is done using facial recognition techniques.

15. (Original) The method of claim 10 wherein comparing the data taken to predetermined criteria for recognition of the user is done using retinal recognition techniques.

16. (Original) The method of claim 10 wherein comparing the data taken to predetermined criteria for recognition of the user is done using iris recognition techniques.

17. (Original) A method comprising:  
varying spatial positions of a plurality of code symbols on a keypad/display, the code symbols being viewable only from a limited viewing position;  
receiving an access code entered by a user using said keypad/display;  
comparing said access code to an authorized access code;  
acquiring digital data from a biometric sensor sensing biometric data of a persons face in the limited viewing position in response to said user operating said keypad/display;  
comparing said user digital data to an authorized user digital data; and

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performing a specified function in response to said access code matching said authorized access code and said user digital data matching said authorized user digital data.

18. (Original) The method of claim 17, wherein said authorized access code is stored in a memory local to said keypad/display.

19. (Original) The method of claim 17, wherein said authorized access code is stored in a remote memory accessible by way of a network.

20. (Original) The method of claim 17, wherein said authorized digital data is stored in a memory local to said keypad/display.

21. (Original) The method of claim 17, wherein said authorized digital data is stored in a remote memory accessible by way of a network.

22. (Original) A security device, comprising:  
a keypad/display to visually display a plurality of code symbols respectively in a plurality of spatial positions for viewing from a restricted position and to enable a user to enter an access code;

a camera to obtain digital data relating to the user; and  
one or more processors to cause:

a varying of the spatial positions of said code symbols on said keypad/display;  
the receipt of an access code, and initiation of the camera to obtain digital data relating to the user during receipt of the access code;

a comparison of said access code with an authorized access code;

a comparison of the digital data with an authorized user digital data; and

a performance of a specified function in response to the access code matching the authorized access code for an authorized user and the user digital data matching the authorized user digital data.

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23. (New) A security device comprising:

a keypad/display having a plurality of code symbol display positions, each for displaying any one of a plurality of code symbols, the code symbols being restricted so as to be viewable by a keypad/display user only when the user's face is located in a particular position relative to the keypad/display, the keypad/display changing the display position of code symbols on each operation of the keypad/display; and

a biometric device associated with the keypad/display for acquiring data from at least a portion of said user's face situated in said particular region and performing biometric recognition of said user using said data;

the biometric device being activated in response to or in conjunction with the initiation of the entry of a code responsive to the code symbols displayed;

the keypad/display includes a microphone and associated speech recognition for entry of a code by recognizing a spoken sequence of code symbols corresponding to the symbols then being displayed in a predetermined spatial sequence of code symbol display positions.

24. (New) The security device of claim 23, wherein said biometric device performs facial recognition of said user.

25. (New) The security device of claim 23, wherein said biometric device performs retina recognition of said user.

26. (New) The security device of claim 23, wherein said biometric device performs iris recognition of said user.

27. (New) The security device of claim 23, wherein said biometric device comprises a solid state camera.

28. (New) The security device of claim 23 wherein the keypad/display is rotatable about a horizontal axis to allow persons of different height to conveniently view the code symbols.

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29. (New) The security device of claim 28 further comprising a sensor sensing the angle of the keypad/display about a horizontal axis to provide an additional level of user recognition.

30. (New) A method of operating a security system comprising:  
providing a keypad/display having a plurality of code symbol display positions, each for displaying any one of a plurality of code symbols, the code symbols being restricted so as to be viewable by a keypad/display user only when the user's face is located in a particular position relative to the keypad/display;  
providing an biometric device associated with the keypad/display for acquiring data from a portion of the user's face situated in said particular region and performing biometric recognition of said user using said data;  
on each operation of the keypad/display, changing the code symbols displayed at the code symbol display positions;  
sensing the entry of a code by the user by sensing the speaking of a code sequence by a user of code symbols corresponding to the symbols then being displayed in a predetermined spatial sequence of code symbol display positions and identifying the code spoken using speech recognition techniques, and during the entry of the code, initiating optical biometric device to obtain data from said user's face;  
comparing the code entered and the data taken to predetermined criteria for recognition of the user.

31. (New) The method of claim 30 wherein the code entered is compared with predetermined criteria for recognition of the user to determine the predetermined criteria to which the data is then compared for recognition of the user.

32. (New) The method of claim 30 wherein comparing the data taken to predetermined criteria for recognition of the user is done using facial recognition techniques.

33. (New) The method of claim 30 wherein comparing the data taken to predetermined criteria for recognition of the user is done using retinal recognition techniques.

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34. (New) The method of claim 30 wherein comparing the data taken to predetermined criteria for recognition of the user is done using iris recognition techniques.